

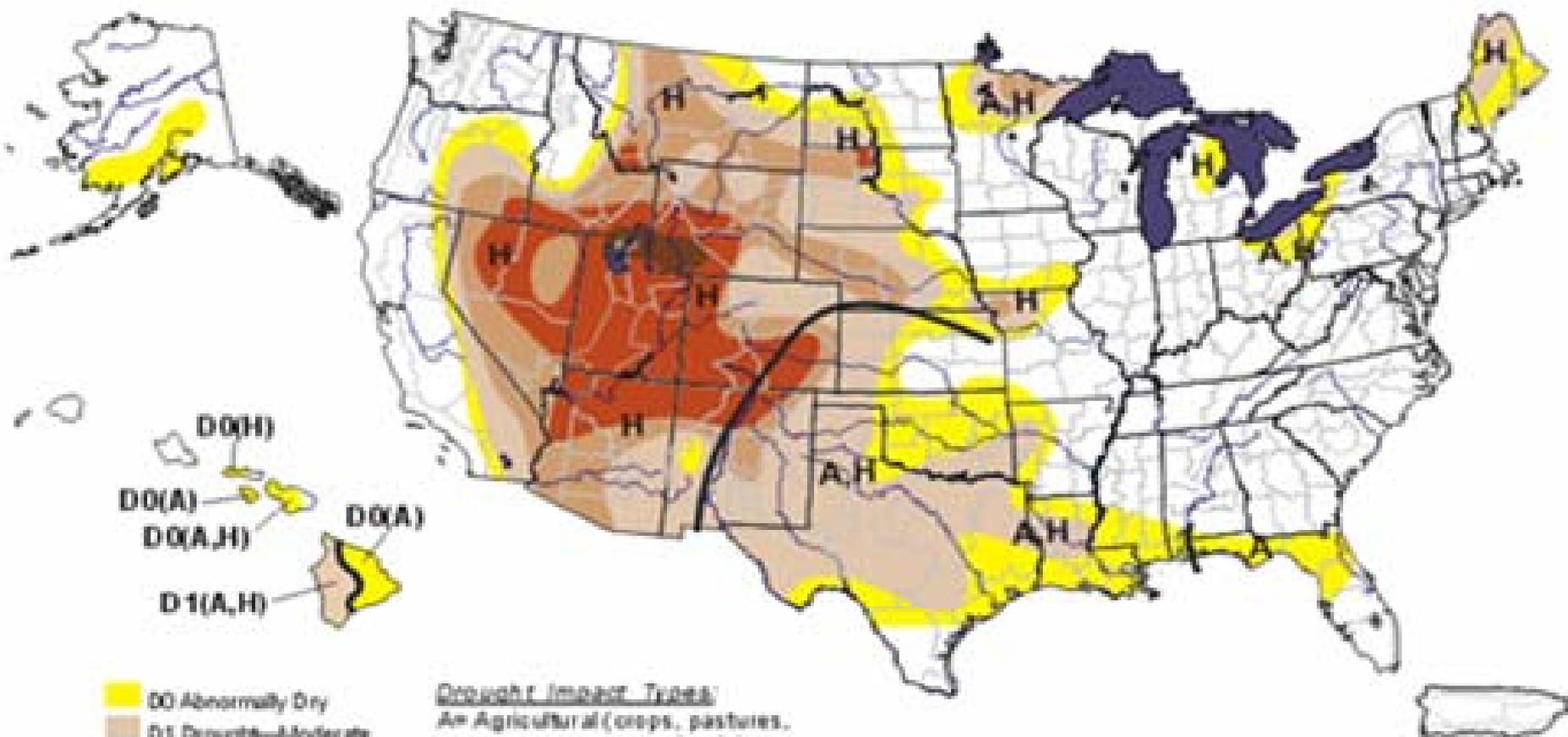
Upper Colorado River Basin Hydrology and Operations

Colorado River Management
Work Group
June 3, 2003

U.S. Drought Monitor

May 13, 2003

Wed 8 a.m. EDT



- D0 Abnormally Dry
- D1 Drought—Moderate
- D2 Drought—Severe
- D3 Drought—Extreme
- D4 Drought—Exceptional

Drought Impact Types

- A= Agricultural (crops, pastures, grasslands)
- H= Hydrological (water)
- Delineates dominant impacts (No type = both impacts)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

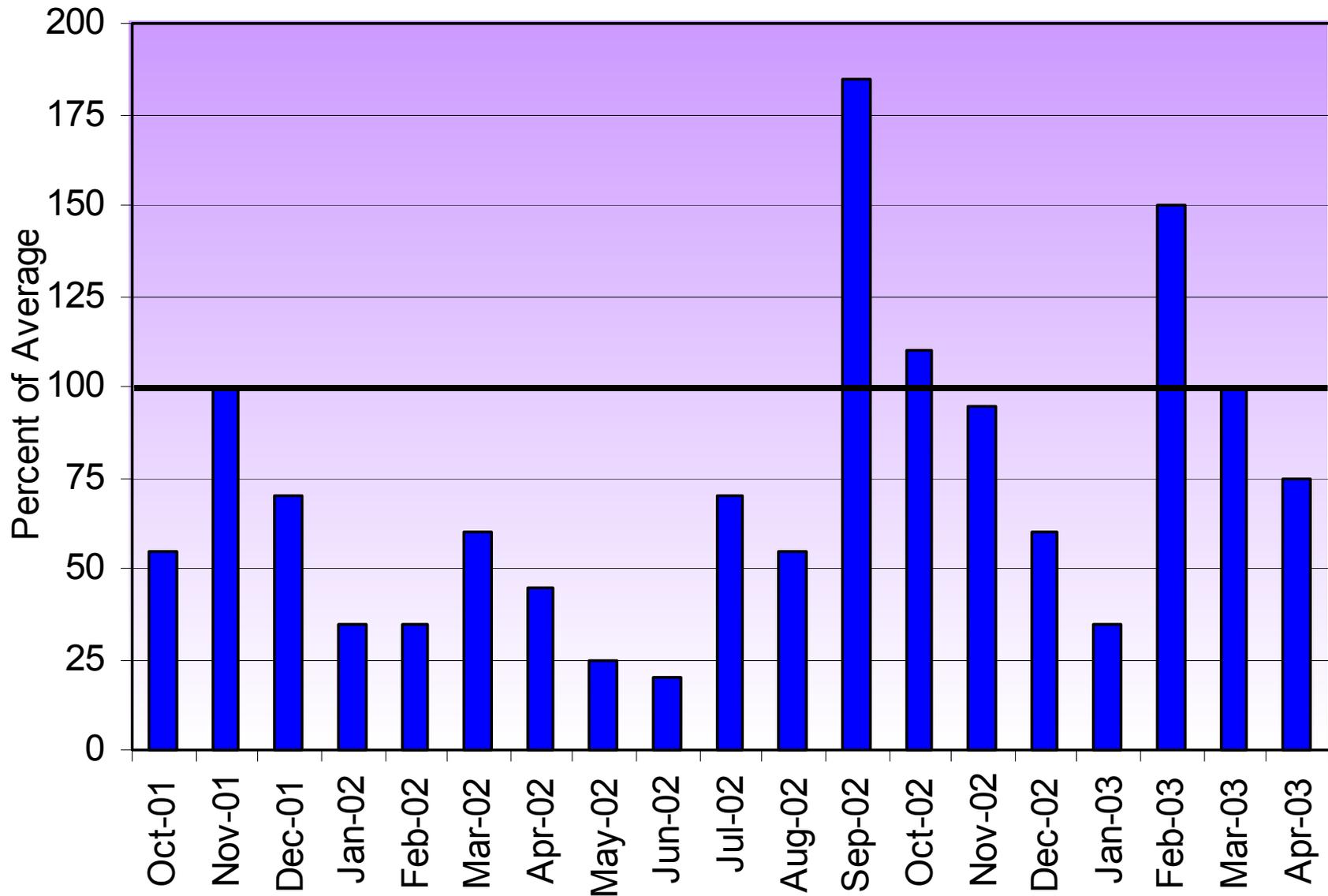
<http://drought.unl.edu/dm>



Released Thursday, May 15, 2003

Author: Rich Tinker, NOAA's Climate Prediction Center

Upper Colorado River Basin Precipitation October 2001 - April 2003



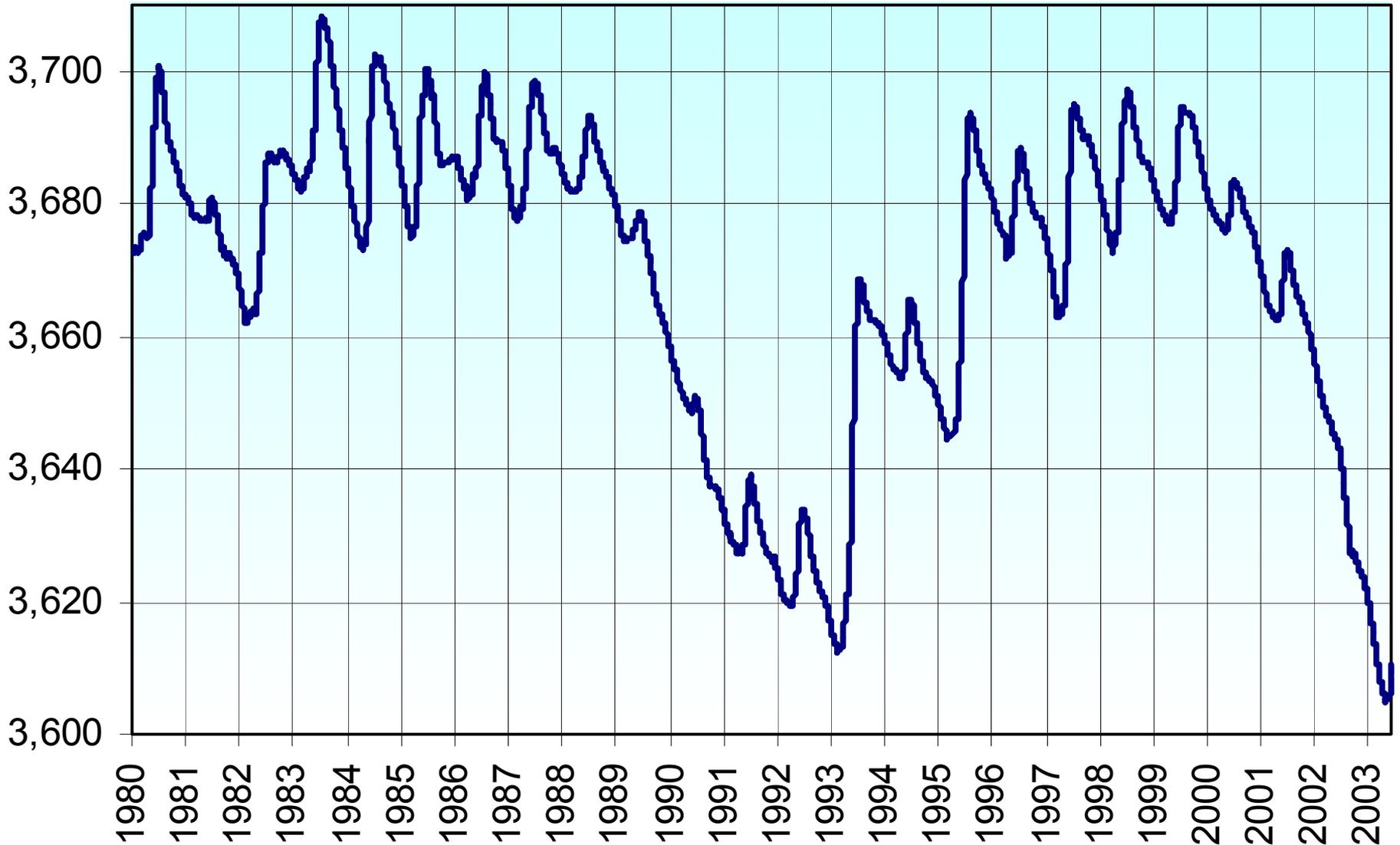
Droughts - Colorado River

(Average Natural Flow 15.0 maf)

<u>Years</u>	<u>Duration</u>	<u>Average Flow</u>
• 1931-1935	5 years	11.4 maf
• 1953-1956	4 years	10.2 maf
• 1959-1964	6 years	11.4 maf
• 1988-1992	5 years	10.5 maf
• 2000-2003*	4 years	10.7 maf

* Estimated

Lake Powell Water Surface Elevations 1980 through Present



Four Years of Drought

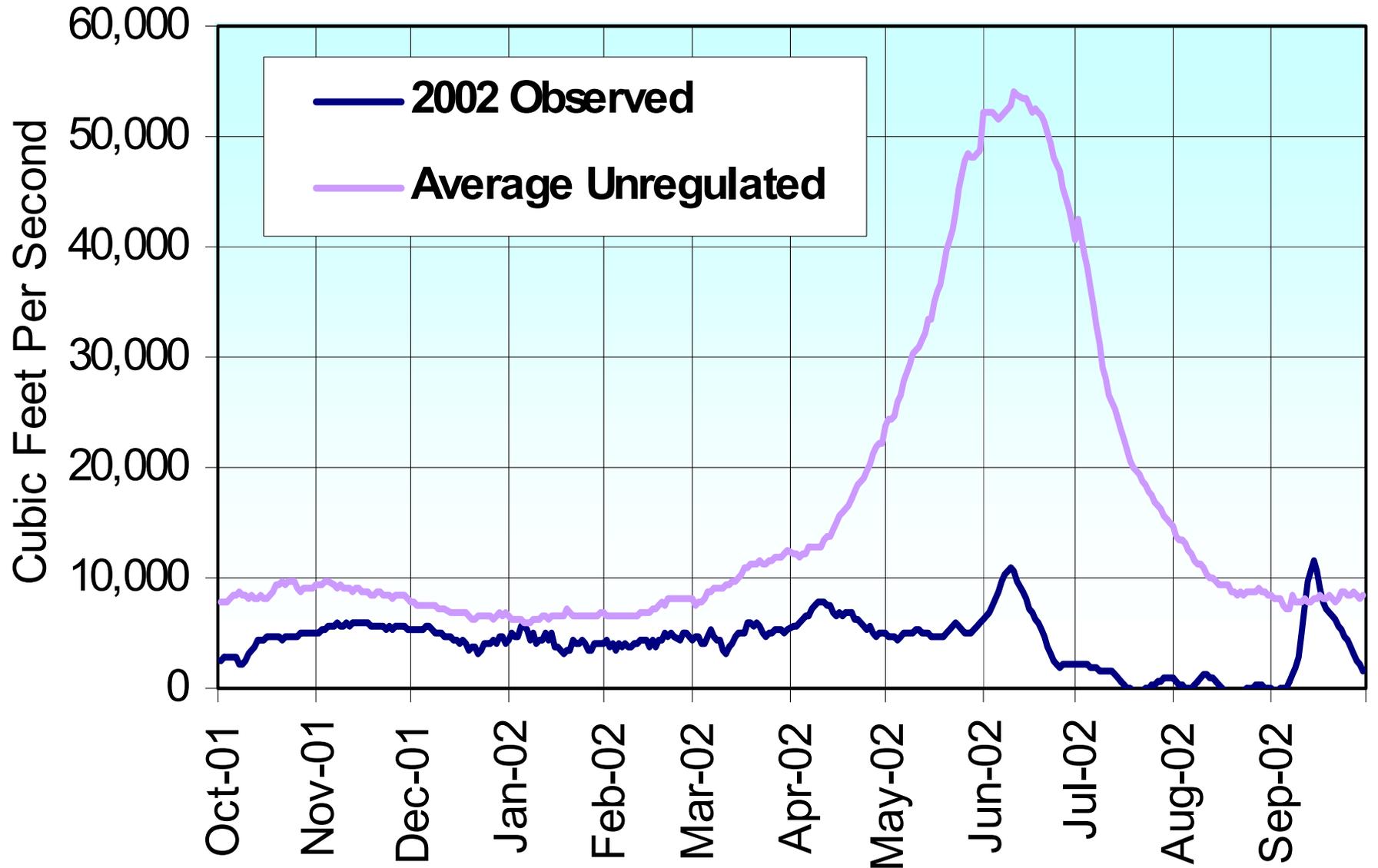
Lake Powell Unregulated Inflow 2000-2003

- WY 2000 62 percent of average
- WY 2001 59 percent of average
- WY 2002 25 percent of average
- WY 2003 57 percent of average*

* Estimated

Lake Powell Unregulated Inflow

Water year 2002



2003 Upper Colorado Apr–Jul Inflow

June 2003

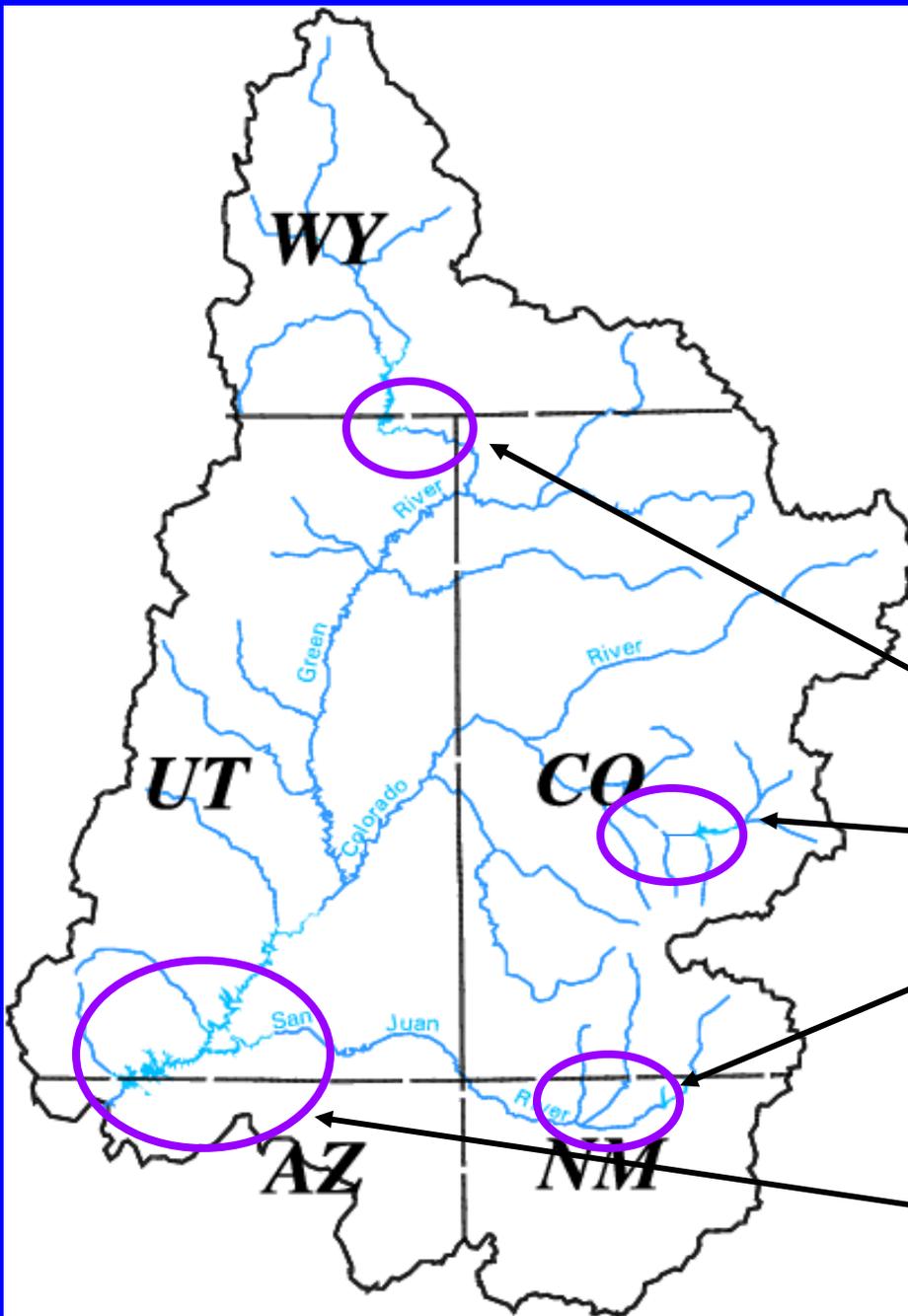
Preliminary Forecasts

Flaming Gorge – 45 %

Blue Mesa – 62 %

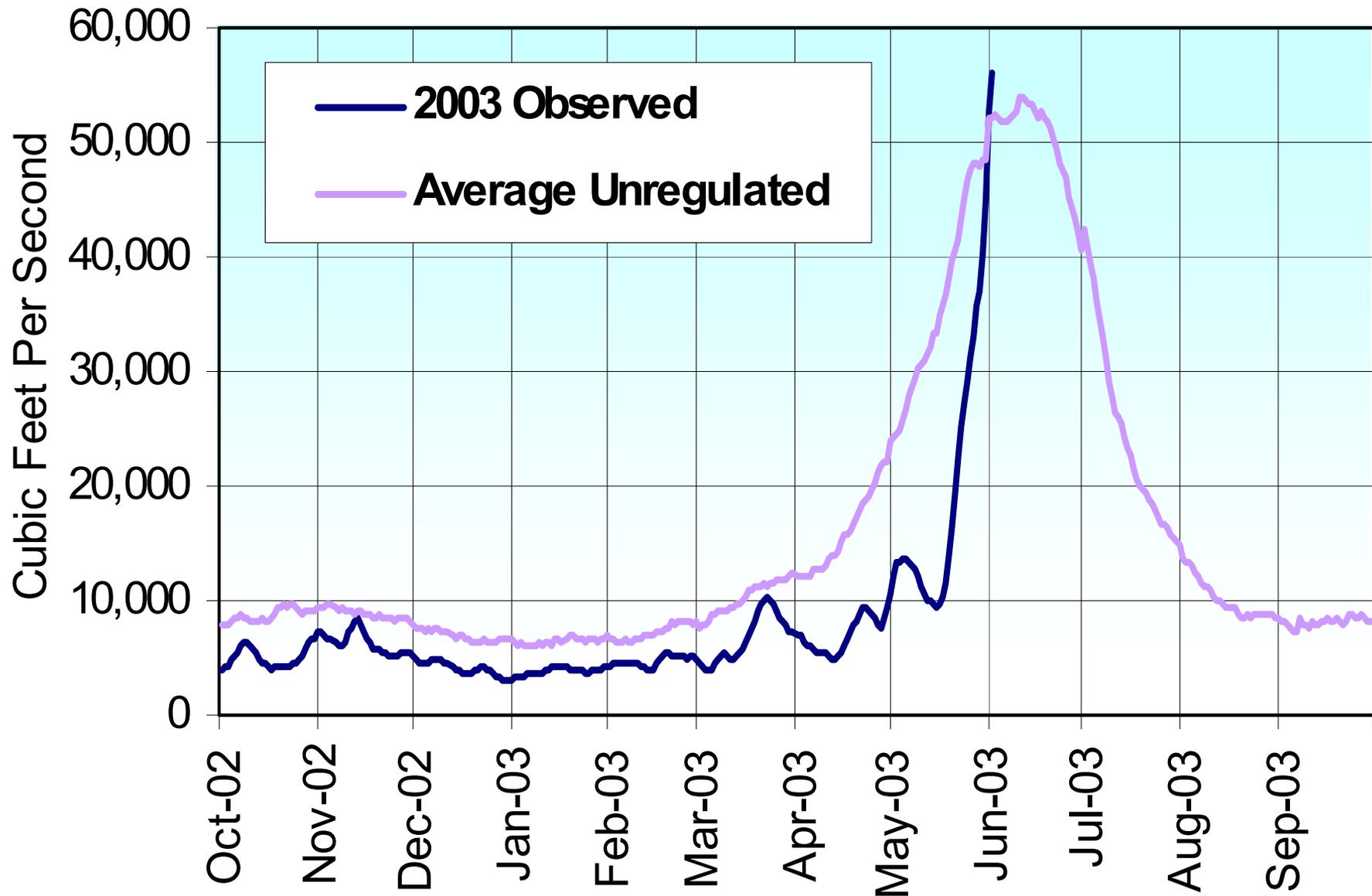
Navajo – 40 %

Lake Powell – 50 %



Lake Powell Unregulated Inflow

Water year 2003



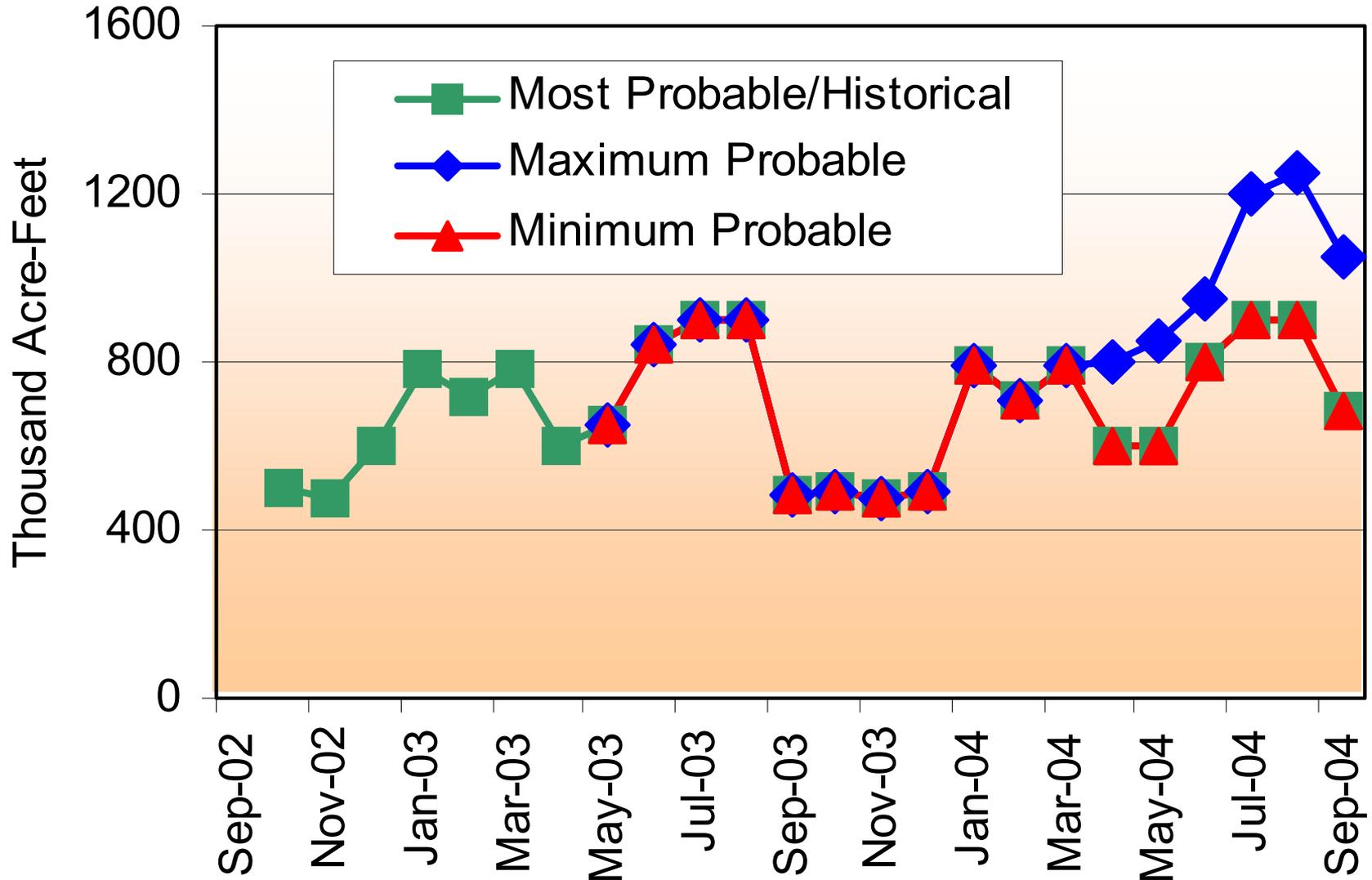
Projected 2004 Lake Powell Inflow

(May, 2003)

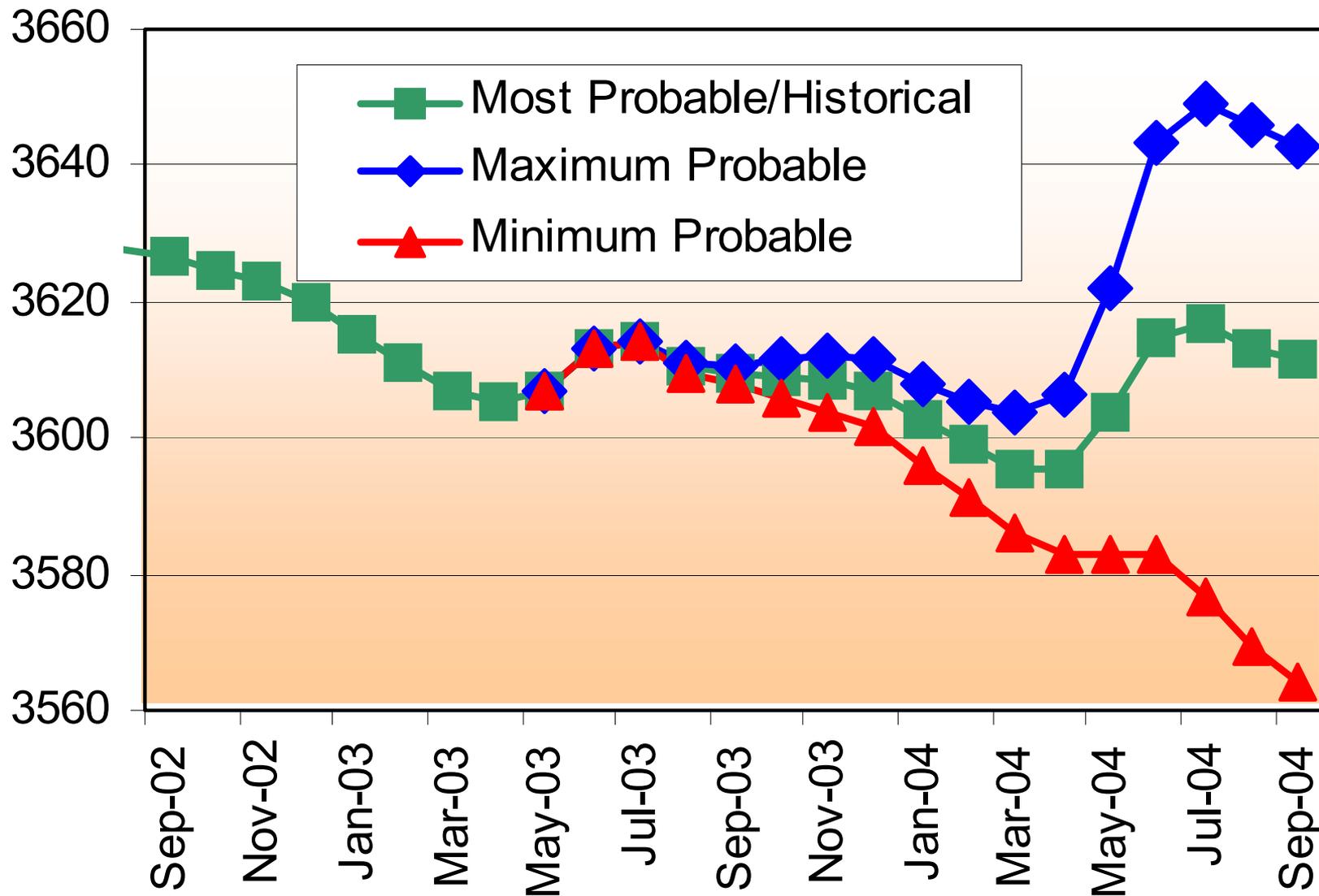
Scenario	WY 2004	Historic
Minimum Probable	3.9 maf (32 %)	6.1 maf (51 %)
Most Probable	9.8 maf (81 %)	12.1 maf (100 %)
Maximum Probable	15.9 maf (132 %)	18.2 maf (151 %)

Lake Powell Releases

Based on May, 2003 Inflow Projections



Lake Powell Water Surface Elevations Based on May, 2003 Inflow Projections



602(a) Storage

